10/684,229

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ANSWER 1 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:214116 CAPLUS

DOCUMENT NUMBER:

140:417247

TITLE:

Differentiation of in vitro transcriptional repression

and activation profiles of selective glucocorticoid

AUTHOR (S):

SOURCE:

CN

Elmore, Steven W.; Pratt, John K.; Coghlan, Michael J.; Mao, Yue; Green, Brian E.; Anderson, David D.; Stashko, Michael A.; Lin, Chun W.; Falls, Douglas; Nakane, Masaki; Miller, Loan; Tyree, Curtis M.; Miner,

Jeffrey N.; Lane, Ben

CORPORATE SOURCE:

Global Pharmaceutical Research and Development, Abbott

Laboratories, Abbott Park, IL, 60064-3500, USA Bioorganic & Medicinal Chemistry Letters (2004),

14(7), 1721-1727

CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER:

Elsevier Science B.V.

DOCUMENT TYPE:

Journal English

LANGUAGE:

The SAR at C-5 of the 10-methoxy-2,2,4-trimethylbenzopyrano[3,4f]quinoline core leading to identification of (-) anti 1-methylcyclohexen-3-yl as the optimum substituent that imparts minimal GR mediated in vitro transcriptional activation while maintaining full transcriptional repression is described. The in vitro profile of these candidates in human cell assays relevant to the therapeutic window of glucocorticoid modulators is outlined.

IT 239068-04-3P 239068-05-4P 239068-08-7P 239068-10-1P 239068-11-2P 239068-21-4P 239068-24-7P 239083-18-2P 691850-80-3P 691850-82-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(differentiation of in vitro transcriptional repression and activation profiles of selective glucocorticoid modulators)

RN239068-04-3 CAPLUS

> 1H-[1]Benzopyrano[3,4-f]quinoline, 5-(2-cyclopenten-1-yl)-2,5-dihydro-10methoxy-2,2,4-trimethyl- (9CI) (CA INDEX NAME)

RN 239068-05-4 CAPLUS

CN1H-[1]Benzopyrano[3,4-f]quinoline, 5-(2-cyclohexen-1-yl)-2,5-dihydro-10methoxy-2,2,4-trimethyl- (9CI) (CA INDEX NAME)

ANSWER 2 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:5178 CAPLUS

DOCUMENT NUMBER:

140:71528

TITLE:

Structure of a glucocorticoid receptor ligand binding domain comprising an expanded binding pocket, and methods using nuclear receptors structure for drug

INVENTOR(S):

Bledsoe, Randy K.; Lambert, Millard Hurst, III;

Montana, Valerie Gail; Stewart, Eugene Lee; Xu, Eric

Huayiang

PATENT ASSIGNEE(S):

Smithkline Beecham Corporation, USA

SOURCE:

Eur. Pat. Appl., 767 pp.

CODEN: EPXXDW

DATE

DOCUMENT TYPE:

Patent

LANGUAGE:

English

KIND

FAMILY ACC. NUM. COUNT:

PATENT NO.

PATENT INFORMATION:

APPLICATION NO. --------**-**-----\_\_\_\_\_\_ EP 1375517 A1 20040102 EP 2003-76899 20030617 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK PRIORITY APPLN. INFO.: US 2002-390610P P 20020621

A solved three-dimensional crystal structure of a glucocorticoid receptor (GR)  $\alpha$  ligand binding domain polypeptide is disclosed, in the form of a crystalline glucocorticoid receptor  $\alpha$  ligand binding domain polypeptide in complex with the ligand fluticasone propionate (FP) and a peptide derived from the co-activator TIF2. The GR/FP/TIF2 structure includes an expanded binding pocket not seen in other GR structures. Methods of designing steroid and non-steroid modulators of the biol. activity of GR and other nuclear receptors (NRs) are also disclosed. another aspect of the present invention homol. models of androgen receptor (AR), progesterone receptor (PR) and mineralocorticoid receptor (MR) are disclosed, as well as methods of forming homol. models for other NRs. Methods of forming a soluble GR/FP/TIF2 complex are also disclosed.

ΙT 239067-64-2, A 222977

RL: BSU (Biological study, unclassified); BIOL (Biological study) (as a non-steroidal GR ligand; structure of a glucocorticoid receptor (GR) ligand binding domain comprising an expanded binding pocket, and methods using nuclear receptor complexes structure for drug design)

RN 239067-64-2 CAPLUS

1H-[1]Benzopyrano[3,4-f]quinoline, 2,5-dihydro-10-methoxy-2,2,4-trimethyl-CN5-[3-[(methylthio)methoxy]phenyl]- (9CI) (CA INDEX NAME)

## RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2004 ACS on STN ANSWER 3 OF 23 L4

ACCESSION NUMBER:

2003:35357 CAPLUS

DOCUMENT NUMBER:

138:89796

TITLE:

Preparation of glucocorticoid-selective

benzopyrano[3,4-f] quinolines as antiinflammatory

INVENTOR (S):

Coghlan, Michael J.; Edwards, James P.; Elmore, Steven W.; Jones, Todd K.; Kort, Michael E.; Kym, Philip R.;

Moore, Jimmie L.; Pratt, John K.; Wang, Alan X.

PATENT ASSIGNEE(S):

Abbott Laboratories, USA; Ligand Pharmaceuticals

Incorporated

SOURCE:

U.S., 119 pp., Cont.-in-part of U.S. Ser. No. 247,831,

abandoned.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

3

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA'	PATENT NO.				KIND DATE				APPI	LICAT	ION	NO.		D	ATE		
US	6506	766			В1		2003	0114		US 2	2000-	6106	38		2	0000.	 705
CA	2415	037			AA		2002	0110		CA 2	2001-	2415	037				
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		GM,	HR,	HU.	ID,	IL.	IN.	IS.	JP.	KE	, KG,	KP.	KR.	KZ.	T.C.	LK	LR
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											TM,						
											, MD,				011,	00,	02,
	RW:	GH.	GM.	KE.	LS.	MW.	M7.	SD.	SL.	SZ	, TZ,	HG,	7.W	ΔΤ	BE	СН	CV
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OTHER SOURCE(S):

MARPAT 138:89796

GI

RN 389090-88-4 CAPLUS

CN 1H-[1]Benzopyrano[3,4-f]quinolin-5-ol, 2,5-dihydro-10-methoxy-5-[3-[2-(methoxymethoxy)ethyl]phenyl]-2,2,4-trimethyl- (9CI) (CA INDEX NAME)

RN 389090-89-5 CAPLUS

CN 1H-[1]Benzopyrano[3,4-f]quinolin-5-ol, 2,5-dihydro-5-[3-(2-hydroxyethyl)phenyl]-10-methoxy-2,2,4-trimethyl- (9CI) (CA INDEX NAME)

$$OMe$$
 $OH$ 
 $OH$ 
 $Me$ 
 $OH_2-CH_2-OH$ 

REFERENCE COUNT:

THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:577809 CAPLUS

DOCUMENT NUMBER:

138:147365

TITLE:

Trans-activation and repression properties of the novel nonsteroid glucocorticoid receptor ligand 2,5-dihydro-9-hydroxy-10-methoxy-2,2,4-trimethyl-5-(1-

AUTHOR (S):

methylcyclohexen-3-y1)-1H-[1]benzopyrano[3,4f]quinoline (A276575) and its four stereoisomers Lin, Chun Wel; Nakane, Masaki; Stashko, Mike; Falls, Doug; Kuk; Jane; Miller, Loan; Huang, Ruth; Tyree, Curtis; Miner, Jeffrey N.; Rosen, John; Kym, Philip R.; Coghlan, Mike J.; Carter, George; Lane, Ben C. Immunoscience Department, Pharmaceutical Discovery Division, Abbott Laboratories, Abbott Park, IL, USA

SOURCE:

Molecular Pharmacology (2002), 62(2), 297-303

CODEN: MOPMA3; ISSN: 0026-895X

PUBLISHER: American Society for Pharmacology and Experimental

Therapeutics

DOCUMENT TYPE: LANGUAGE:

CORPORATE SOURCE:

Journal English

Glucocorticoids are potent anti-inflammatory and immunosuppressant agents. However, they also produce serious side effects that limit their usage. It has been proposed that anti-inflammatory properties of glucocorticoids are caused mostly by repression of activator protein 1- and nuclear factor  $\kappa\beta\text{-stimulated}$  synthesis of inflammatory mediators, whereas most of their adverse effects are associated with trans-activation of genes involved with metabolic processes. The authors' labs. have sought to discover novel glucocorticoid receptor (GR) ligands that have high repression but low trans-activation activities. The authors describe here cellular properties of 2,5-dihydro-9-hydroxy-10-methoxy-2,2,4-trimethyl-5-(1-methylcyclohexen-3-y1)-1H-[1]benzopyrano[3,4-f]quinoline (A276575) and its four enantiomers. Similar to dexamethasone, A276575 exhibited high affinity for GR and potently repressed interleukin (IL)  $1\beta$ -stimulated IL-6 production in human skin fibroblasts, prostaglandin (PG) E2 production in A549 human lung epithelial cells, and Con A-induced monocyte proliferation. In contrast to dexamethasone, A276575 caused smaller induction of aromatase activity in human skin fibroblasts and antagonized dexamethasone-induced activation of an mouse mammary tumor virus-glucocorticoid-response element (GRE) reporter gene construct. Among the four enantiomers of A276575, the two (-)-enantiomers showed 10to 30-fold higher affinities for GR than their resp. (+)-enantiomers. Both (-)-Syn and (-)-Anti enantiomers of A276575 were potent inhibitors of  $IL-1\beta$ -stimulated PGE2 production in A549 lung epithelial cells; unexpectedly, however, only the (-)-Anti enantiomer inhibited regulated on T-cell activation, normal T-cell expressed and secreted (RANTES) production in A549 cells. In summary, A276575 is a novel, nonsteroidal GR ligand that possesses high repression activities against inflammatory mediator production but has lower GRE trans-activation activities than traditional steroids. Differential repression of RANTES and PGE2 production in a cell by the two (-)-enantiomers of A276575 illustrates the complexity of repression by GR.

IT 239069-02-4, A 276575 239069-03-5, A 277574 239069-04-6, A 277575 239069-05-7, A 282163 239069-06-8, A 282166

> RL: ADV (Adverse effect, including toxicity); DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(trans-activation and repression properties of nonsteroid qlucocorticoid receptor ligand A276575 and four stereoisomers compared with dexamethasone in human cells in relation to anti-inflammatory activity)

RN239069-02-4 CAPLUS

CN

1H-[1]Benzopyrano[3,4-f]quinolin-9-ol, 2,5-dihydro-10-methoxy-2,2,4trimethyl-5-(3-methyl-2-cyclohexen-1-yl)- (9CI) (CA INDEX NAME)

RN 239069-03-5 CAPLUS

CN 1H-[1]Benzopyrano[3,4-f]quinolin-9-ol, 2,5-dihydro-10-methoxy-2,2,4-trimethyl-5-[(1S)-3-methyl-2-cyclohexen-1-yl]-, (5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 239069-04-6 CAPLUS

CN 1H-[1]Benzopyrano[3,4-f]quinolin-9-ol, 2,5-dihydro-10-methoxy-2,2,4-trimethyl-5-[(1R)-3-methyl-2-cyclohexen-1-yl]-, (5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 239069-05-7 CAPLUS

CN 1H-[1]Benzopyrano[3,4-f]quinolin-9-ol, 2,5-dihydro-10-methoxy-2,2,4-trimethyl-5-[(1S)-3-methyl-2-cyclohexen-1-yl]-, (5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 239069-06-8 CAPLUS

CN 1H-[1]Benzopyrano[3,4-f]quinolin-9-ol, 2,5-dihydro-10-methoxy-2,2,4-trimethyl-5-[(1R)-3-methyl-2-cyclohexen-1-yl]-, (5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

REFERENCE COUNT:

21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:31454 CAPLUS

DOCUMENT NUMBER:

136:102372

TITLE:

Preparation of glucocorticoid-selective

benzopyrano[3,4-f]quinolines as antiinflammatory

agents

INVENTOR(S):

Coghlan, Michael J.; Edwards, James P.; Elmore, Steven W.; Jones, Todd K.; Kort, Michael E.; Kym, Philip R.;

Moore, Jimmie L.; Pratt, John K.; Wang, Alan X.

PATENT ASSIGNEE(S):

Abbott Laboratories, USA; Ligand Pharmaceuticals Inc.

SOURCE:

GI

PCT Int. Appl., 316 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

3

PATENT INFORMATION:

PATENT NO.	KIND		APPLICATION NO.	DATE			
WO 2002002565 WO 2002002565			WO 2001-US20423	20010627			
CO, CR, GM, HR, LS, LT, RO, RU, VN, YU, RW: GH, GM,	CU, CZ, DE HU, ID, IL LU, LV, MA SD, SE, SG ZA, ZW, AM KE, LS, MW	E, DK, DM, L, IN, IS, A, MD, MG, G, SI, SK, M, AZ, BY, M, MZ, SD,	BA, BB, BG, BR, BY, DZ, EC, EE, ES, FI, JP, KE, KG, KP, KR, MK, MN, MW, MX, MZ, SL, TJ, TM, TR, TT, KG, KZ, MD, RU, TJ, SL, SZ, TZ, UG, ZW, IE, IT, LU, MC, NL,	GB, GD, GE, GH, KZ, LC, LK, LR, NO, NZ, PL, PT, TZ, UA, UG, UZ, TM AT, BE, CH, CY,			
	CG, CI, CM Bl		GW, ML, MR, NE, SN, US 2000-610638				
CA 2415037 EP 1299392			CA 2001-2415037 EP 2001-948754				
IE, SI,	LT, LV, FI	I, RO, MK,	GB, GR, IT, LI, LU, CY, AL, TR				
	T2		BR 2001-12160 JP 2002-507817				
PRIORITY APPLN. INFO	:		US 2000-610638 US 1998-74666P US 1999-247831 WO 2001-US20423	B2 19990210			
OTHER SOURCE(S):	MARPAT	r 136:10237		20010027			

Title compds. I [wherein R1 = L1RA; L1 = a bond, O, S, SO, SO2, CO, CS, CO2, OCO, or (un)substituted amino, NHCO, CONH, SO2NH, NHSO2, etc.; RA = OH, SH, CO2H, alkoxycarbonyl, CN, halo(alkoxy), CHO, alkyl, alkenyl, alkynyl, or (un)substituted amino, CONH2, etc.; R2, R3, and R4 = independently H or R1; or R1 and R2 taken together may form methylenedioxy, etc.; L2 = a bond, alkynylene, CO, CS, O, S, SO, SO2, or (un)substituted alkylene, amino, etc.; R5 = H, halo, CN, (cyclo)alkyl, alkynyl, heterocyclyl, aryl, etc.; R6 = H or alkyl; or L2R5 and R6 together may form :O, (un)substituted carbocyclic ring, heterocyclic ring, or alkylidene; R16 = independently H or alkyl; or 2 R16 together form an alkenyl; Y = C, N, or N:O; R17 = absent or H or alkyl; R18 = independently H or alkyl; or 2 R18 together form a heterocyclic ring or carbocyclic ring] were prepared as antiinflammatory agents. For example, 2,6-dimethoxyphenylboronic acid (preparation given) was coupled with Me

$$\begin{array}{c|c} \text{OMe} & \text{H} & \text{Me} \\ \hline \text{OH} & \text{OH} & \text{Me} \\ \hline \\ \text{CH}_2-\text{CH}_2-\text{OH} \\ \end{array}$$

ANSWER 6 OF 23 L4CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2001:817458 CAPLUS

DOCUMENT NUMBER:

136:102306

TITLE:

Nonsteroidal Selective Glucocorticoid Modulators: the

Effect of C-5 Alkyl Substitution on the

Transcriptional Activation/Repression Profile of

2,5-Dihydro-10-methoxy-2,2,4-trimethyl-1H-

[1] benzopyrano[3,4-f] quinolines

AUTHOR (S):

Elmore, Steven W.; Coghlan, Michael J.; Anderson, David D.; Pratt, John K.; Green, Brian E.; Wang, Alan X.; Stashko, Michael A.; Lin, Chun W.; Tyree, Curtis M.; Miner, Jeffery N.; Jacobson, Peer B.; Wilcox,

Denise M.; Lane, Benjamin C.

CORPORATE SOURCE:

Immunologic Disease Research Pharmaceutical Products

Division, Abbott Laboratories, Abbott Park, IL,

60064-3500, USA

SOURCE:

Journal of Medicinal Chemistry (2001), 44(25),

4481-4491

CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER:

American Chemical Society

DOCUMENT TYPE:

Journal

LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 136:102306

GΙ

The preparation and characterization of a series of selective glucocorticoid AΒ receptor modulators are described. The preliminary structure-activity relationship of nonarom. C-5 substitution on the tetracyclic quinoline core showed a preference for small lipophilic side chains. Proper substitution at this position maintained the transcriptional repression of proinflammatory transcription factors while diminishing the transcriptional activation activity of the ligand/glucocorticoid receptor complex. The optimal compds. described in this study were the benzopyranoquinolines I [R = allyl, cyclopentyl]. These candidates showed

slightly less potent, highly efficacious E-selectin repression with significantly reduced levels of glucocorticoid response element activation in reporter gene assays vs prednisolone. I [R = allyl] was evaluated in vivo. An oral dose of I [R = allyl] showed an ED50 = 1.7 mg/kg as compared to 1.2 mg/kg for prednisolone in the Sephadex-induced pulmonary eosinophilia model and an ED50 = 15 mg/kg vs 4 mg/kg for prednisolone in the carrageenan-induced paw edema model.

IT 239067-64-2

RL: BSU (Biological study, unclassified); BIOL (Biological study) (preparation of

2,5-dihydro-10-methoxy-2,2,4-trimethyl-1H-[1]benzopyrano[3,4-f]quinolines as nonsteroidal selective glucocorticoid modulators)

RN 239067-64-2 CAPLUS

CN 1H-[1]Benzopyrano[3,4-f]quinoline, 2,5-dihydro-10-methoxy-2,2,4-trimethyl-5-[3-[(methylthio)methoxy]phenyl]- (9CI) (CA INDEX NAME)

IT 239068-74-7P 239068-77-0P

RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (preparation of

2,5-dihydro-10-methoxy-2,2,4-trimethyl-1H-[1]benzopyrano[3,4-f]quinolines as nonsteroidal selective glucocorticoid modulators)

RN 239068-74-7 CAPLUS

CN 1H-[1]Benzopyrano[3,4-f]quinoline, 5-cyclopentyl-2,5-dihydro-10-methoxy-2,2,4-trimethyl- (9CI) (CA INDEX NAME)

RN 239068-77-0 CAPLUS

CN 1H-[1]Benzopyrano[3,4-f]quinoline, 5-cyclohexyl-2,5-dihydro-10-methoxy-2,2,4-trimethyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

61 THERE ARE 61 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 7 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2001:555594 CAPLUS

DOCUMENT NUMBER:

135:288716

TITLE:

Synthesis and characterization of non-steroidal ligands for the glucocorticoid receptor: selective quinoline derivatives with prednisolone-equivalent

functional activity

AUTHOR(S):

Coghlan, Michael J.; Kym, Philip R.; Elmore, Steven W.; Wang, Alan X.; Luly, Jay R.; Wilcox, Denise; Stashko, Michael; Lin, Chun-Wei; Miner, Jeffrey; Tyree, Curtis; Nakane, Masaki; Jacobson, Peer; Lane,

Benjamin C.

CORPORATE SOURCE:

Pharmaceutical Products Division, Abbott Laboratories,

Abbott, IL, 60064, USA

SOURCE:

Journal of Medicinal Chemistry (2001), 44(18),

2879-2885

CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER:

American Chemical Society Journal

DOCUMENT TYPE:

LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 135:288716

GI

A novel class of functional benzopyranoquinoline ligands for the human glucocorticoid receptor is described. Substituents in the C-10 position of the tetracyclic core are essential for glucocorticoid receptor (GR) selectivity vs. other steroid receptors. The C-5 position is derivatized with meta-substituted aromatic groups, resulting in analogs with a high affinity for GR (Ki = 2.4-9.3 nM) and functional activity comparable to prednisolone in reporter gene assays of glucocorticoid-mediated gene

REFERENCE COUNT:

44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:506106 CAPLUS

DOCUMENT NUMBER:

133:120319

TITLE:

Preparation of 5-substituted 1,2-dihydro-5H-

chromeno[3,4-f]quinolines

INVENTOR(S):

Edwards, James P.; Jones, Todd K.

PATENT ASSIGNEE(S):

Ligand Pharmaceuticals Inc., USA

SOURCE:

U.S., 10 pp. CODEN: USXXAM

DOCUMENT TYPE:/

Patent

LANGUAGE:

RN

English

Ι

1

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
				_	
US 6093826 US 6268497 PRIORITY APPLN. INFO.:	A B1	20000725 20010731	US 1998-93421 US 2000-547568 US 1998-93421	<b>λ3</b>	19980608 20000412 19980608
OTHER SOURCE(S): GI	CASREA	ACT 133:1203	19; MARPAT 133:120319		19900000

Title compds. [I; R = alkyl, allyl, (hetero)aryl, etc.; R1-R6 = H, F, C1, alkyl, aryl, etc.; R10,R11 = H, alkyl, allyl, aryl, etc.; R12,R13 = alkyl, allyl, (hetero)aryl, etc.] were prepared by etherification of I (R = OH) by, e.g., a hydroxyarom. followed by Grignard alkyl- or arylation. Thus, I (R1 = R2 = R4-R6 =R11 = H, R3 = F, R10 = R12 = R13 = Me)(II; R = OH)(preparation given) was etherified by 4-(MeO)C6H4OH to give 75% the acetal which was treated with PhMgBr/ZnCl2 to give 76% II (R = Ph).

17 179895-46-6P 179896-85-6P 201359-41-3P RL: IMF (Industrial manufacture); SPN (Synth

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(preparation of 5-substituted 1,2-dihydro-5H-chromeno[3,4-f]quinolines). 179895-46-6 CAPLUS

CN 1H-[1]Benzopyrano[3,4-f]quinoline, 5-(3-chlorophenyl)-9-fluoro-2,5-dihydro-2,2,4-trimethyl- (9CI) (CA INDEX NAME)

RN 179896-85-6 CAPLUS

CN 1H-[1]Benzopyrano[3,4-f]quinoline, 9-fluoro-2,5-dihydro-2,2,4-trimethyl-5-(3-methylphenyl)- (9CI) (CA INDEX NAME)

RN 201359-41-3 CAPLUS

CN 1H-[1]Benzopyrano[3,4-f]quinoline, 9-fluoro-2,5-dihydro-2,2,4-trimethyl-5-phenyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

. 7

ACCESSION NUMBER: 1999:529151 CAPLUS

DOCUMENT NUMBER: 131:144617

TITLE: Preparation of glucocorticoid-selective

antiinflammatory agents

INVENTOR(S): Coughlan, Michael J.; Kort, Michael E.; Edwards, James

P.; Jones, Todd K.

PATENT ASSIGNEE(S):

Abbott Laboratories, USA; Ligand Pharmaceuticals, Inc.

SOURCE:

PCT Int. Appl., 52 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
WO 9941257	A1 19990819	WO 1999-US3210	19990215
W: AL, AM, AT,	AU, AZ, BA, BB,	BG, BR, BY, CA, CH, C	N, CU, CZ, DE,
DK, EE, ES,	FI, GB, GD, GE,	GH, GM, HR, HU, ID, I	L. IN. IS. JP.
KE, KG, KP,	KR, KZ, LC, LK,	LR, LS, LT, LU, LV, M	D, MG, MK, MN,
MW, MX, NO,	NZ, PL, PT, RO,	RU, SD, SE, SG, SI, S	K. SL. TJ. TM
TR, TT, UA,	UG, UZ, VN, YU,	ZW, AM, AZ, BY, KG, K	Z. MD. RU. TJ TM
RW: GH, GM, KE,	LS, MW, SD, SZ,	UG, ZW, AT, BE, CH, C	Y. DE. DK. ES
FI, FR, GB,	GR, IE, IT, LU,	MC, NL, PT, SE, BF, B	J, CF, CG, CI,
US 2001049377	A1 20011206	SN, TD, TG     US 1998-23913  ZA 1999-533     CA 1999-2320911     AU 1999-26003  TR 2000-200002345     EP 1999-905971	19980213
US 6380207	B2 20020430		
ZA 9900533	A 19990726	ZA 1999-533	19990125
CA 2320911	AA 19990819	CA 1999-2320911	19990215
AU 9926003	A1 19990830	AU 1999-26003	19990215
AU 760511	B2 20030515	•	
TR 200002345	T2 20001121	TR 2000-200002345	19990215
EP 1053240	A1 20001122	EP 1999-905971	19990215
EP 1053240	B1 20030416		
ST ET PO	,,,	OD, OK, 11, H1, H0, N.	L, SE, PT, IE,
BR 9907847 JP 2002503666 NZ 506012 AT 237620 PT 1053240 ES 2197618	A 20010109	BR 1999-7847	19990215
JP 2002503666	T2 20020205	JP 2000-531450	19990215
NZ 506012	A 20030328	NZ 1999-506012	19990215
AT 237620	E 20030515	AT 1999-905971	19990215
PT 1053240	T 20030930	PT 1999-905971	19990215
ES 2197618	T3 20040101	ES 1999-905971	19990215
SK 284076	B6 20040908	ES 1999-905971 SK 2000-1196 NO 2000-4052 BG 2000-104698 HK 2001-102795 US 1998-23913	19990215
NO 2000004052	A 20001012	NO 2000-4052	20000811
BG 104698	A 20010531	BG 2000-104698	20000817
BG 64213	B1 20040531		= 1 3 3 3 3 2 2 7
НК 1033309	A1 20040206	HK 2001-102795	20010419
PRIORITY APPLN. INFO.:		US 1998-23913	A 19980213
		WO 1999-US3210	W 19990215
OTHER SOURCE(S):	MARPAT 131:14461	.7	

AB Title compds. [I; R = C6H5, CH2CH:CH2, 3,5-(Cl)2C6H3; R1 = CH3, CH2; dotted line = singly, double bond], pharmaceutical compns. comprising compds. of I are prepared and methods of inhibiting immune or autoimmune diseases in a mammal are disclosed as compds. I are useful for partially

### 10/684,229

of fully antagonizing, repressing, agonizing, or modulating the glucocorticoid receptor in a mammal and treating immune, autoimmune and inflammatory diseases in a mammal. Thus, the title compound I (  $R=C6H5\,;$  R1 =  $CH3\,;$  dotted line = double bond) was prepared from 2-HO-3-MeOC6H3CO2Me, 2-bromoanisole, and acetone via cyclization.

IT 235433-74-6P 235433-76-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of glucocorticoid selective antiinflammatory agents)

RN 235433-74-6 CAPLUS

CN 1H-[1]Benzopyrano[3,4-f]quinoline, 2,5-dihydro-11-methoxy-2,2,4-trimethyl-5-phenyl- (9CI) (CA INDEX NAME)

RN 235433-76-8 CAPLUS

CN 1H-[1]Benzopyrano[3,4-f]quinoline, 5-(3,5-dichlorophenyl)-2,5-dihydro-11-methoxy-2,2,4-trimethyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

1

ACCESSION NUMBER:

1999:529150 CAPLUS

DOCUMENT NUMBER:

131:170368

TITLE:

Preparation of glucocorticoid-selective

anti-inflammatory agents

INVENTOR(S):

Coughlan, Michael J.; Elmore, Steven W.; Kort, Michael E.; Kym, Philip R.; Moore, Jimmie L.; Pratt, John K.;

Wang, Alan X.; Edwards, James P.; Jones, Todd K.

PATENT ASSIGNEE(S):

Abbott Laboratories, USA; Ligand Pharmaceuticals, Inc.

SOURCE:

PCT Int. Appl., 329 pp.

DOCUMENT TYPE:

CODEN: PIXXD2 Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT NO.				KIND DATE			APPLICATION NO.						DATE						
	WO	9941	256			Α1		1999	0819	Ī	WO :	1999-	US31	27		1	9990:	212	
		W:	AL,	AM,	AT,	AU,	AZ	, BA,	BB,	BG,	BR	, BY,	CA,	CH,	CN,	CU,	CZ,	DE,	
								, GD,											
			KΕ,	KG,	KP,	KR,	KZ.	, LC,	LK,	LR,	LS	, LT,	LU,	LV,	MD,	MG,	MK,	MN,	
								, PT,											
			TR,	TT,	UA,	UG,	UZ,	, VN,	YU,	ZW,	AM	, AZ,	BY,	KG,	KΖ,	MD,	RU,	TJ,	TM
		RW:	GH,	GM,	KΕ,	LS,	MW	, SD,	SZ,	UG,	ZW	, AT,	BE,	CH,	CY,	DE,	DK,	ES,	
								, IT,						BF,	ΒJ,	CF,	CG,	CI,	
			CM,	GA,	GN,	GW,	ML	, MR,	ΝE,	SN,	TD	, TG							
	ZA	9901	156			Α		1999	0812		ZA :	1999-	1156			1	9990:	212	
	ΑU	9926	773			Al		1999 2003 1999	0830	1	AU :	1999-	2677	3		1	9990:	212	
1	ΑU	7664	41			B2		2003	1016										
	CA	2320	943			AA		1999	0919	•	CA :	1999-	2320	943		1	9990:	212	
	EP	1053	239			Al		2000	1122		EP .	1999-	9069	96		1	9990:	212	
	EP							2003											
		R:				DE,	DK	, ES,	FR,	GB,	GR	, IT,	LI,	LU,	NL,	SE,	PT,	ΙE,	
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		2192	735 735			ΤЗ		2003		Ì	ES :	1999-	9049	9 <i>6</i>		1	9990.	212	
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	_	1033						2003			нк :	2001-	1027	93		2	0010	419	
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OTHER	R SC	URCE	(S):			MARI	TAG	131:	1703										

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GΙ

Title compds. [I; R = C6H5, CH2CH:CH2, 3,5-(Cl)2C6H3, 3-Br-5-MeC6H3, 3-HOC6H4, 3-AcC6H4, 3-Me2NCOC6H4, MeSCH2C6H4, HOCH2CH:CHCH2, C6H5CH2NHCOOCH2CH:CHCH2, 2-pyridyl, 3-pyridyl, 4-pyridyl, C6H5CH:CH, C6H5CC; R1 = CH3, CH2, (C2-C6)alkyl, H; R2 = H, (C1-C6)alkyl; R1-R2 = alkenyl of two carbons; R3 = OMe, NHMe, CO2Me, CH:CH2, CCH, COMe, OEt, OCHF2, CH2OH, CH2 OMe, SMe; dotted line = singly, double bond; Y = CH, CH2, N, N:O], stereoisomers, pharmaceutically acceptable salt, prodrug thereof, and pharmaceutical compns. comprising compds. of I are prepared and methods of inhibiting immune or autoimmune diseases in a mammal are disclosed as compds. I are useful for partially of fully antagonizing, repressing, agonizing, or modulating the glucocorticoid receptor in a mammal and treating immune, autoimmune and inflammatory diseases in a mammal. Thus, the title compound I (R = (Z)-C6H5CH:CH; R1-R2 = CH3; R3 =

RN 239071-13-7 CAPLUS

CN Methanesulfonic acid, trifluoro-, 5-(3,5-dichlorophenyl)-2,5-dihydro-2,2,4-trimethyl-1H-[1]benzopyrano[3,4-f]quinolin-10-yl ester (9CI) (CA INDEX NAME)

RN 239071-20-6 CAPLUS

CN Methanesulfonic acid, trifluoro-, 2,5-dihydro-2,2,4-trimethyl-5-phenyl-1H-[1]benzopyrano[3,4-f]quinolin-10-yl ester (9CI) (CA INDEX NAME)

$$F_3C - S \longrightarrow O \longrightarrow Me$$

$$O \longrightarrow Me$$

$$Me$$

$$Ph$$

REFERENCE COUNT:

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

1

ACCESSION NUMBER:

1999:199481 CAPLUS

DOCUMENT NUMBER:

AUTHOR(S):

130:325097

TITLE:

5-Aryl-1,2,3,4-tetrahydrochromeno[3,4-f]quinolin-3ones as a novel class of nonsteroidal progesterone receptor agonists: effect of A-ring modification Zhi, Lin; Tegley, Christopher M.; Marschke, Keith B.; 10/684,229

Mais, Dale E.; Jones, Todd K.

CORPORATE SOURCE: Department of Medicinal Chemistry, New Leads Discovery

and Endocrine Research Ligand Pharmaceuticals Inc.,

San Diego, CA, 92121, USA

SOURCE: Journal of Medicinal Chemistry (1999), 42(8),

1466-1472

CODEN: JMCMAR; ISSN: 0022-2623

American Chemical Society

Journal English

LANGUAGE:

PUBLISHER:

DOCUMENT TYPE:

CT

Optimization of the 1,2-dihydroquinoline A-ring of a nonsteroidal human progesterone receptor (hPR) agonist pharmacophore I was performed by using the cotransfection and receptor binding assays as guides. The 3-keto group was discovered to regain the potent agonist activity which was lost upon removal of the 3,4-olefin, and it led to a novel hPR agonist series, 5-aryl-1,2,3,4-tetrahydrochromeno[3,4-f]quinolin-3-ones. The new progestins demonstrated potent hPR agonist activity in the cotransfection assay and high binding affinity similar to progesterone. T47D human breast cancer cell line was employed for further characterization of the new progestins and a number of reference analogs. It was found that the new 3-keto analogs showed full agonist activity in the T47D assay, while the reference compds. from other related nonsteroidal hPR agonist series exhibited only partial agonist activity.

IT 179898-20-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT -(Reactant or reagent)

(intermediate in preparation, breast tumor inhibitory, and progesterone receptor agonist activity of arylchromenoquinolinones and structure activity relationship)

RN 179898-20-5 CAPLUS

CN 1H-[1]Benzopyrano[3,4-f]quinoline-1-carboxylic acid, 5-(4-chlorophenyl)-2,5-dihydro-2,2,4-trimethyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

REFERENCE COUNT:

12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 12 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1998:609678 CAPLUS

DOCUMENT NUMBER:

129:339452

TITLE:

5-Benzylidene-1,2-Dihydrochromeno[3,4-f]quinolines, A

Novel Class of Nonsteroidal Human Progesterone

Receptor Agonists

AUTHOR (S):

Tegley, Christopher M.; Zhi, Lin; Marschke, Keith B.;

Gottardis, Marco M.; Yang, Qinchuan; Jones, Todd K.

CORPORATE SOURCE:

Department of Medicinal Chemistry New Leads Discovery and Endocrine Research, Ligand Pharmaceuticals Inc.,

San Diego, CA, 92121, USA

SOURCE:

Journal of Medicinal Chemistry (1998), 41(22),

4354-4359

CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER:

American Chemical Society

DOCUMENT TYPE:

Journal English

LANGUAGE:

GI

AB A novel series of nonsteroidal progestins, 5-benzylidene-1,2dihydrochromeno[3,4-f]quinolines, was discovered, and a preliminary structure-activity relation study around the 5-benzylidene ring generated several potent human progesterone receptor agonists. These new progestins showed biol. activities (EC50 = 5.7 and 7.6 nM) similar to progesterone (EC50 = 2.9 nM) in the cotransfection assay with high efficacy (132% and 166%) and binding affinity (Ki = 0.66 and 0.83 nM) similar to medroxyprogesterone acetate (MPA) (Ki = 0.34 nM). A representative analog, I, demonstrated similar oral potency to MPA in the uterine wet

weight/mammary gland morphol. assay in ovariectomized rats.

IT 179894-95-2

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(structure activity relations of benzylidene(dihydrochromeno)quinolines as progesterone receptor agonists)

RN 179894-95-2 CAPLUS

CN 1H-[1]Benzopyrano[3,4-f]quinoline, 2,5-dihydro-2,2,4-trimethyl-5-phenyl-(9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1998:446763 CAPLUS

DOCUMENT NUMBER:

129:156902

TITLE:

Preparation, Resolution, and Biological Evaluation of 5-Aryl-1,2-dihydro-5H-chromeno[3,4-f]quinolines: Potent, Orally Active, Nonsteroidal Progesterone

Receptor Agonists

AUTHOR(S):

Edwards, James P.; Zhi, Lin; Pooley, Charlotte L. F.;

Tegley, Christopher M.; West, Sarah J.; Wang, Ming-Wei; Gottardis, Marco M.; Pathirana, Charles;

Schrader, William T.; Jones, Todd K.

CORPORATE SOURCE:

Departments of Medicinal Chemistry and Endocrine

Research, Ligand Pharmaceuticals Inc., San Diego, CA,

92121, USA

SOURCE:

Journal of Medicinal Chemistry (1998), 41(15),

2779-2785

CODEN: JMCMAR; ISSN: 0022-2623 American Chemical Society

PUBLISHER: America: DOCUMENT TYPE: Journal

LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 129:156902

Two potent nonsteroidal progestins from the 5-aryl-1,2-dihydro-5H-chromeno[3,4-f]quinoline class (LG120746 and LG120747) were selected for scale-up, resolution, and biol. evaluation of the purified enantiomers. For each quinoline, the levorotatory enantiomer was determined to be the more potent agonist of the human progesterone receptor isoform B (hPR-B) (EC50 < 3 nM), but the dextrorotatory enantiomers retained significant PR modulatory activity (EC50 < 200 nM). In two in vivo rodent models of progestational activity, a pregnancy maintenance assay and a uterine wet weight assay, the two eutomers displayed potent progesterone-like effects. In a third model for progestational activity, the mammary end bud assay, these compds. were significantly less active. These studies demonstrate that certain members of this class of selective progesterone receptor modulators display encouraging and potentially useful tissue-selective progestational effects.

IT 179895-46-6P, LG 120746

RL: BAC (Biological activity or effector, except adverse); BSU (Biological

CM 2

CRN . 7664-93-9 CMF H2 O4 S

RN 211057-21-5 CAPLUS

CN 1H-[1]Benzopyrano[3,4-f]quinoline, 5-(4-chloro-3-methylphenyl)-9-fluoro-2,5-dihydro-2,2,4-trimethyl-, (5R)-, sulfate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 211057-20-4 .CMF C26 H23 C1 F N O

Absolute stereochemistry.

CM 2

CRN 7664-93-9 CMF H2 O4 S

REFERENCE COUNT:

THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 14 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1998:45156 CAPLUS

DOCUMENT NUMBER:

128:97309

10/684,229

TITLE:

5-Aryl-1,2-dihydro-5H-chromeno[3,4-f]quinolines as Potent, Orally Active, Nonsteroidal Progesterone

Receptor Agonists: The Effect of D-Ring Substituents

AUTHOR(S):

Edwards, James P.; West, Sarah J.; Marschke, Keith B.;

Mais, Dale E.; Gottardis, Marco; Jones, Todd K.

Departments of Medicinal Chemistry New Leads Discovery

and Endocrine Research, Ligand Pharmaceuticals Inc., San Diego, CA, 92121, USA

SOURCE:

Journal of Medicinal Chemistry (1998), 41(3), 303-310

CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER:

CORPORATE SOURCE:

American Chemical Society

DOCUMENT TYPE:

Journal

LANGUAGE:

English

Several 5-(4-chlorophenyl)-1,2-dihydro-5H-chromeno[3,4-f]quinolines were prepared to determine the effects of substitution at C(8) and C(9) on the progestational activity of this pharmacophore. In combination with a halogen (F or Cl) at C(9), replacement of the C(5) aryl group with variously substituted aryl groups resulted in optimization of the progestational activity, affording compds. with in vitro activity greater than that of progesterone as measured by a co-transfection assay using human progesterone receptor subtype-B (hPR-B). Binding affinities (Ki) to hPR-A were subnanomolar in many cases. These in vitro effects were verified in vivo using a rodent model. LG120794, 9-chloro-5-(4chlorophenyl)-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline was more potent than medroxyprogesterone acetate at counter-poising the effects of estradiol benzoate in the uterine weight wet assay using immature rats.

#### ΙT 179894-97-4, LG 120546

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(preparation and structure activity relationship of aryldihydrochromenoquinolines as potent orally active nonsteroidal progesterone receptor agonists)

RN 179894-97-4 CAPLUS

CN

1H-[1]Benzopyrano[3,4-f]quinoline, 5-(4-chlorophenyl)-2,5-dihydro-2,2,4trimethyl- (9CI) (CA INDEX NAME)

179895-46-6P, LG 120746 179895-47-7P IT

179895-48-8P, LG 120748 179895-49-9P

179895-51-3P 179895-52-4P, LG 120794

179896-64-1P 179896-65-2P 179896-66-3P

179896-67-4P 179896-68-5P 179896-70-9P

179896-74-3P 179896-75-4P 179896-85-6P

179896-88-9P 179896-89-0P 179897-81-5P

201359-40-2P 201359-41-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological

201359-41-3 CAPLUS RN

CN1H-[1]Benzopyrano[3,4-f]quinoline, 9-fluoro-2,5-dihydro-2,2,4-trimethyl-5phenyl- (9CI) (CA INDEX NAME)

ANSWER 15 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1998:45155 CAPLUS

DOCUMENT NUMBER:

128:110382

TITLE:

5-Aryl-1,2-dihydrochromeno[3,4-f]quinolines: A Novel

Class of Nonsteroidal Human Progesterone Receptor

AUTHOR (S):

Zhi, Lin; Tegley, Christopher M.; Kallel, E. Adam; Marschke, Keith B.; Mais, Dale E.; Gottardis, Marco;

Jones, Todd K.

CORPORATE SOURCE:

Departments of Medicinal Chemistry New Leads Discovery and Endocrine Research, Ligand Pharmaceuticals Inc.,

San Diego, CA, 92121, USA

SOURCE:

Journal of Medicinal Chemistry (1998), 41(3), 291-302

CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER:

American Chemical Society

DOCUMENT TYPE:

Journal

LANGUAGE:

English

The development of a novel class of nonsteroidal human progesterone receptor (hPR) agonists, 5-aryl-1,2-dihydro-5H-chromeno[3,4-f]quinolines, is described. The introduction of a 5-aryl group into the 1,2-dihydrocoumarino[3,4-f]quinoline core is the key for progestational activities. The structure-activity relationship (SAR) studies of the 5-aryl substituents generated a series of potent hPR agonists, which exhibited similar biol. activity (EC50 = 8-30 nM) to the natural hormone progesterone (EC50 = 2.9 nM) in cell-based assays with efficacies ranging from 28% to 96%. Most of the analogs displayed similar or greater binding affinity (Ki = 0.41-3.6 nM) than progesterone (Ki = 3.5 nM). Three representative analogs (aryl = Ph, 4-Cl-, 3-F3CC6H4) demonstrated in vivo activities in mammary gland morphol./uterine wet weight assay in ovariectomized rats.

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PUR (Purification or recovery); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(synthesis and activity of aryldihydrochromenoquinolines for use as nonsteroidal human progesterone receptor agonists)

RN 179894-97-4 CAPLUS

CN 1H-[1]Benzopyrano[3,4-f]quinoline, 5-(4-chlorophenyl)-2,5-dihydro-2,2,4trimethyl- (9CI) (CA INDEX NAME)

RN179895-01-3 CAPLUS

1H-[1] Benzopyrano [3,4-f] quinoline, 2,5-dihydro-2,2,4-trimethyl-5-(4-f)CN methylphenyl) - (9CI) (CA INDEX NAME)

179894-95-2P 179894-99-6P 179895-00-2P 179895-02-4P 179895-03-5P 179895-05-7P 179895-06-8P 179895-11-5P 179895-13-7P 179895-15-9P 179895-17-1P 179895-25-1P 179895-29-5P 179895-30-8P 179895-33-1P 179896-77-6P 179896-80-1P 179896-82-3P

199608-88-3P 199608-89-4P 201593-64-8P

201593-67-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(synthesis and activity of aryldihydrochromenoquinolines for use as nonsteroidal human progesterone receptor agonists)

RN 179894-95-2 CAPLUS

CN 1H-[1]Benzopyrano[3,4-f]quinoline, 2,5-dihydro-2,2,4-trimethyl-5-phenyl-(CA INDEX NAME)

IT 201593-60-4P

RL: SPN (Synthetic preparation); PREP (Preparation)

(synthesis and activity of aryldihydrochromenoquinolines for use as nonsteroidal human progesterone receptor agonists)

201593-60-4 CAPLUS RN

Benzenamine, 4-(2,5-dihydro-2,2,4-trimethyl-1H-[1]benzopyrano[3,4-CN f]quinolin-5-yl)-N, N-dimethyl- (9CI) (CA INDEX NAME)

ANSWER 16 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1998:8172 CAPLUS

DOCUMENT NUMBER:

128:75320

TITLE:

Preparation of quinoline derivatives and analogs as

steroid receptor modulator compounds and method of

progesterone receptor therapy

INVENTOR(S):

Jones, Todd K.; Goldman, Mark E.; Pooley, Charlotte Lf; Winn, David T.; Edwards, James P.; West, Sarah J.; Tegley, Christopher M.; Zhi, Lin; Hamann, Lawrence G.;

Farmer, Luc J.; Davis, Robert L.

PATENT ASSIGNEE(S):

Ligand Pharmaceuticals Inc., USA

SOURCE:

U.S., 125 pp., Cont.-in-part of U.S. Ser. No. 363,529,

abandoned.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

12

FAMILY ACC. NUM. COUNT:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5696133	A	19971209	US 1995-465556	19950605
CA 2208347	AA	19960627	CA 1995-2208347	19951213

RN 199608-89-4 CAPLUS

CN 1H-[1]Benzopyrano[3,4-f]quinoline, 5-[4-fluoro-3-(trifluoromethyl)phenyl]-2,5-dihydro-2,2,4-trimethyl- (9CI) (CA INDEX NAME)

ANSWER 17 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1997:809721 CAPLUS

DOCUMENT NUMBER:

128:61505

TITLE:

Preparation of tricyclic heterocycle-fused quinoline

INVENTOR(S):

derivatives as steroid receptor modulators and methods of their use Jones, Todd K.; Winn, David T.; Goldman, Mark E.;

Hamann, Lawrence G.; Zhi, Lin; Farmer, Luc J.; Davis,

Robert L.

PATENT ASSIGNEE(S):

Ligand Pharmaceuticals Inc., USA

SOURCE:

U.S., 127 pp., Cont.-in-part of U.S. Ser. No. 363,529, abandoned.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

12

				•
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5696130	A	19971209	US 1995-462643	19950605
CA 2208347	AA	19960627	CA 1995-2208347	19951213
CA 2200347	$\Delta \Delta$	19900027	CA 1993-2200347	13331213
WO 9619458	A2	19960627	WO 1995-US16096	19951213
WO 9619458	A3	19961212		
W: AM, AT, AU	, BB, BG	BR, BY,	CA, CH, CN, CZ, DE,	DK, EE, ES, FI.
GD, GE, HO	, 15, 01	, KE, KG,	KP, KR, KZ, LK, LR,	TI, TO, TV, MD,
MG, MN, MW	, MX, NC	NZ, PL,	PT, RO, RU, SD, SE,	SG. SI. SK. TJ.

ANSWER 18 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1997:809720 CAPLUS

DOCUMENT NUMBER:

128:61504

TITLE:

Preparation of chromenoquinoline derivatives and analogs as steroid receptor modulator compounds and

methods of their use

INVENTOR(S):

Jones, Todd K.; Zhi, Lin; Edwards, James P.; Tegley,

Christopher M.; West, Sarah J.

PATENT ASSIGNEE(S):

Ligand Pharmaceuticals Inc., USA

SOURCE:

U.S., 129 pp., Cont.-in-part of U.S. Ser. No. 363,127,

abandoned.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 12

PA.	rent i	NO.		•	KIN	D	DATE		i	APPL	ICAT	ION	NO.		D.	ATE		
US CA WO	5696: 2208: 96194	127 347 458			A AA A2		1997 1996 1996	0627 0627	Ţ	CA 1	995-	2208	347		1	9951	213	
***	·₩:	AM, GB, MG,	AT, GE,	AU, HU, MW,	BB, IS,	BG, JP,	1996 BR, KE, NZ,	BY, KG,	CA, KP,	KR,	KΖ,	LK,	LR,	LT,	LU,	LV,	MD,	
	RW:	ΙT,	LU,	MW, MC, TD,	ΝL,	SZ, PT,	UG, SE,	AT, BF,	BE, BJ,	CH, CF,	DE, CG,	DK, CI,	ES, CM,	FR, GA,	GB, GN,	GR, ML,	IE, MR,	
AU	96459	977			Al		1996	0710	I	AU 19	996-4	4597	7		19	9951:	213	
ΑU	71725	51			B2		2000(	0323										
EP	80051	L9			A1		1997	1015	I	EP 19	995-9	9440	89		19	9951:	213	
EP	8005	L 9			В1		2003	1022								,,,,,,,		
CN BR HU	R: 11752 95104 78117	247 186			A A		ES, 1998( 1998( 1999)	0304	( F	CN 19	995-1 995-1	1977) 1048)	02 5		19	99512	213 ·	ΙE
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	R: 10410	AT, )66	BE,	CH,	DE, A1	DK,	ES, 20001	FR., L004	GB,	GR, EP 20	IT, 000-1	LI, L1391	LU, 15	NL,	SE,	MC, 9512	PT, 213	
EP EP	R: 10433 10433	325			A1		ES, 20001 20047	L011	E	EP 20	IT, 000-1	LI, L1382	LU, 29	NL,	SE,	MC, 9512	PT, 213	IE
	R: 10433	AT,	BE,	CH,	DE,	DK,	ES.	FR,	GB,	GR.	IT,	LI, 1383	LU, 30	NL,	SE,	MC, 9512	РТ, 213	ΙE

RN 199608-88-3 CAPLUS

CN 1H-[1]Benzopyrano[3,4-f]quinoline, 5-(3-bromo-5-methylphenyl)-2,5-dihydro-2,2,4-trimethyl- (9CI) (CA INDEX NAME)

RN 199608-89-4 CAPLUS

CN 1H-[1]Benzopyrano[3,4-f]quinoline, 5-[4-fluoro-3-(trifluoromethyl)phenyl]-2,5-dihydro-2,2,4-trimethyl- (9CI) (CA INDEX NAME)

L4 ANSWER 19 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1997:772299 CAPLUS

DOCUMENT NUMBER: 128:61503

TITLE: Preparation of heterocycle-fused quinoline derivatives

as steroid receptor modulator compounds

INVENTOR(S): Jones, Todd K.; Zhi, Lin; Tegley, Christopher M.;

Winn, David T.; Hamann, Lawrence G.; Edwards, James

P.; West, Sarah J.

PATENT ASSIGNEE(S):

SOURCE:

Ligand Pharmaceuticals Inc., USA U.S., 126 pp., Cont.-in-part of U.S. Ser. No. 363,529,

abandoned. CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION
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PATENT NO.		KIND	DATE	APPLICATION NO.	
US 5693647 CA 2208347		A AA A2	19971202	US 1995-464546 CA 1995-2208347 WO 1995-US16096	19950605 19951213
GB,	GE, HU, MN, MW,	IS, JP	, KE, KG,	CA, CH, CN, CZ, DE, KP, KR, KZ, LK, LR, PT, RO, RU, SD, SE,	LT, LU, LV, MD,
RW: KE, IT, NE,	LS, MW,	NL, PT TG	, SE, BF,	BE, CH, DE, DK, ES, BJ, CF, CG, CI, CM,	GA, GN, ML, MR,
AU 9645977 AU 717251 EP 800519 EP 800519		A1	19960710 20000323 19971015 20031022		19951213 19951213
CN 1175247		A A A2	19980304 19980602 19991129	GB, GR, IT, LI, LU, CN 1995-197702 BR 1995-10486 HU 1997-2305 EP 2000-113914	19951213 19951213 19951213
R: AT, EP 1041066		DE, DK, A1	, ES, FR, 20001004	GB, GR, IT, LI, LU, EP 2000-113915	NL, SE, MC, PT, IE 19951213
EP 1043325 EP 1043325		A1 B1	20001011 20040616	GB, GR, IT, LI, LU, EP 2000-113829	19951213
EP 1043326		A1 .	20001011	GB, GR, IT, LI, LU, EP 2000-113830	19951213
EP 1043315 R: AT,		A1 DE, DK,	20001011 ES, FR,	GB, GR, IT, LI, LU,	19951213 NL, SE, MC, PT, IE
EP 1382597		A2 A3	20040121 20040407		19951213
DT OAAE1A		T T3 E	20040331 20040616 20040715	GB, GR, IT, LI, LU, PT 1995-944089 ES 1995-944089 AT 2000-113829	19951213 19951213 19951213
AU 762398	NFO.:	A B2	19970814 20030626	NO 1997-2591 AU 2000-27761 US 1994-363529 US 1995-462643	19970606 20000414 B2 19941222 A 19950605
·				US 1995-463231 US 1995-464360 US 1995-464514 US 1995-464541 US 1995-46546 US 1995-465429 US 1995-465556 AU 1996-45977 EP 1995-944089	A 19950605 A 19951213 A3 19951213

L4 ANSWER 20 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1997:772298 CAPLUS

DOCUMENT NUMBER:

128:61502

TITLE:

Preparation of chromenoquinoline derivatives and analogs as steroid receptor modulator compounds and

methods

INVENTOR(S):

Jones, Todd K.; Tegley, Christopher M.; Zhi, Lin;

Edwards, James P.; West, Sarah J.

PATENT ASSIGNEE(S):

Ligand Pharmaceuticals Inc., USA

SOURCE:

U.S., 128 pp., Cont.-in-part of U.S. Ser. No. 363,529,

abandoned.
CODEN: USXXAM

DOCUMENT TYPE: LANGUAGE: Patent English

FAMILY ACC. NUM. COUNT:

PATE							DATE							<b></b> -					
US 5 CA 2		546 847			A AA		1996	0627	US 1995-464360 CA 1995-2208347 WO 1995-US16096						19950605 19951213				
WO 9	96194	58			А3		1996	1212											
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	RW:	KE, IT,	LS, LU,		NL,			AT, BF,									,		
AU 9				,			1996	0710		AU 1:	996-	4597	7		1:	9951	213		
AU 7	71725	51			B2	:	2000	0323											
EP 8	30051	.9			A1		1997	1015		EP 1	995-	9440	89		1:	9951	213		
EP 8	30051	.9			Bl		2003	1022											
CN 1 BR 9	1752	.47 86	·	ŕ	A A		1998 1998	FR, 0304 0602 1129		CN 1	995 <b>-</b> : 995 - :	1977 1048	)2 5	ŕ	1: 1:	9951: 9951:	213 213	ΙE	
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EP 1	R:	AT, 325	BE,	CH,	DE, A1	DK,	ES, 2000	FR, 1011	GB,	GR,	ΙT,	LI,	LU,	NL,	SE,	MC,	PT,	ΙE	
EP 1								FR, 1011										ΙE	

RN199608-88-3 CAPLUS

CN1H-[1]Benzopyrano[3,4-f]quinoline, 5-(3-bromo-5-methylphenyl)-2,5-dihydro-2,2,4-trimethyl- (9CI) (CA INDEX NAME)

RN199608-89-4 CAPLUS

CN 1H-[1]Benzopyrano[3,4-f]quinoline, 5-[4-fluoro-3-(trifluoromethyl)phenyl]-2,5-dihydro-2,2,4-trimethyl- (9CI) (CA INDEX NAME)

ANSWER 21 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1997:752743 CAPLUS

DOCUMENT NUMBER:

128:34752

TITLE:

Preparation and formulation of heterocyclic compounds

as steroid receptor modulators

INVENTOR(S):

Jones, Todd K.; Goldman, Mark E.; Pooley, Charlotte Lf; Winn, David T.; Edwards, James P.; West, Sarah J.; Tegley, Christopher M.; Zhi, Lin

PATENT ASSIGNEE(S):

Ligand Pharmaceuticals Inc., USA

SOURCE:

U.S., 127 pp., Cont.-in-part of U.S. Ser. No. 363,529,

DATE

19951213

abandoned. CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO.

US 5688810	A	19971118	US 1995-464541	19950605
CA 2208347	AA	19960627	CA 1995-2208347	19951213
WO 9619458	A2	19960627	WO 1995-US16096	19951213

WO 9619458 А3 19961212

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MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT

RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR,

NE, SN, TD, TG

AU 9645977 19960710 AU 1996-45977 A1 19951213 AU 717251 B2 20000323

EP 800519 A1 19971015

EP 1995-944089 19951213 EP 800519 В1 20031022

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE

CN 1175247 19980304 CN 1995-197702 Α 19951213 BR 9510486 19980602 BR 1995-10486 Α 19951213

EP 1041071 Α1 20001004 EP 2000-113914 19951213

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE EP 1041066 Α1 20001004 EP 2000-113915 19951213

BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE R: AT, EP 1043325 A1 20001011 EP 2000-113829 19951213

EP 1043325 В1 20040616

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE EP 1043326 Α1 20001011 EP 2000-113830 19951213

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE

EP 1043315 A1 20001011 EP 2000-113916 19951213 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE

RU 2191774 C2 20021027 AT 252560 20031115, Ε

AT 1995-944089 19951213 EP 1382597 A2 20040121 EP 2003-23907 19951213

EP 1382597 Α3 20040407

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE Т

PT 800519 20040331 ES 2208699 Т3 20040616 AT 269336 Ε 20040715

NO 9702591 Α 19970814 US 6093821 Α 20000725 B2 20030626

AU 762398 PRIORITY APPLN. INFO.: PT 1995-944089 19951213 ES 1995-944089 19951213

RU 1997-112141

AT 2000-113829 19951213 NO 1997-2591 19970606 US 1997-943853 19971008

AU 2000-27761 20000414 US 1994-363529 B2 19941222

US 1995-462643 , A 19950605 US 1995-463231 A 19950605

US 1995-464360 A 19950605 US 1995-464541 A 19950605

US 1995-464546 A 19950605 US 1995-465429 A 19950605

Α US 1995-465556 19950605 AU 1996-45977 A3 19951213 EP 1995-944089 A3 19951213

WO 1995-US16096 W 19951213

ANSWER 22 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1997:752742 CAPLUS

DOCUMENT NUMBER:

128:34751

TITLE:

Preparation of heterocycle-fused quinoline derivatives

as steroid receptor modulator compounds

INVENTOR(S):

Jones, Todd K.; Winn, David T.; Zhi, Lin; Hamann,

Lawrence G.; Tegley, Christopher M.; Pooley, Charlotte

L. F.

PATENT ASSIGNEE(S):

SOURCE:

Ligand Pharmaceuticals Inc., USA

U.S., 122 pp., Cont.-in-part of U.S. Ser. No. 363,529,

abandoned.

CODEN: 'USXXAM

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT: 12

	ΓΕΝΤ :						DATE			APPL						ATE		
	5688									US 1								
							1000	T110		05 1	990-	4632	31		1	9950	605	
LA	2208	34/			AA		1996	0627		CA I	995-	2208	347		1	9951	213	
WO	9619	458			A2		1996	0627		WO 1	995-	US16	096		1	9951	213	
MO	9619																	
	W :	AM,	ΑT,	ΑU,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CZ,	DE,	DK,	EE,	ES,	FI,	1
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	,	NE,	SN,	TD,	TG	•	•		- •	,	,	0_,	···,	011,	OI,	112,	1110,	
ΑU	9645							0710		AU 1	996-	4597	7		1 '	9951	213	
ΑU	7172	51			В2		2000	0323										
EР	8005	19			A1		1997	1015		EP 1	995-	9440	R 9		1 .	9951	212	
EΡ	8005	19			B1		2003	1022				<i>J</i> 1 1 0 0	<i></i>		Ι.	,,,,,,,	ردی	
	R:								GB	GR	ΤT	т.т	T.I.I	NTT	CP	MC	DIT	TD
CN	11752	247	,	<b>011</b>	Δ,	211,	19981	1304	CD,	CNI 1	005	1077/	10,	иц,	JE,	MC,	21,	TF
BR	95104	186			7		1000	3501		DD 1		1010	J		11	3351.	213	
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EP	10410	J / I		~	AI		2000.	1004	_	EP 2	000-	1139:	14		19	9951:	213	
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EΡ	10410	066			A1		2000:	L004		EP 2	000-1	11393	15		19	99512	213	
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EP	10433	325			A1	2	20001	1011		EP 20	000-1	11382	29		19	99512	213	

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EP 1043325			В1	20040616				
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EP 1043326			A1	20001011	EP 2000-113830		19951213	
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EP 1043315			A1	20001011	EP 2000-113916		19951213	
R: AT	, BE,	CH,	DE, D	K, ES, FR,	GB, GR, IT, LI, LU,	NL, S	SE, MC, PT,	ΙE
RU 2191774			C2	20021027	RU 1997-112141		19951213	2
AT 252560			E	20031115	AT 1995-944089		19951213	
EP 1382597			A2	20040121	EP 2003-23907		19951213	
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R: AT	, BE,	CH,	DE, D	K, ES, FR,	GB, GR, IT; LI, LU,	NL, S	SE, MC, PT,	ΙE
PT 800519			Т	20040331	PT 1995-944089 ES 1995-944089		19951213	
ES 2208699			T3	20040616	ES 1995-944089		19951213	
AT 269336			E	20040715	AT 2000-113829		19951213	
NO 9702591			A	19970814	NO 1997-2591			
AU 762398	THEO		B2	20030626				
PRIORITY APPLN.	INFO.	:			US 1994-363529			
					US 1995-462643		19950605	
					US 1995-463231		19950605	
					US 1995-464360		19950605	
					US 1995-464514		19950605	
					US 1995-464541		19950605	
					US 1995-464546		19950605	
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					AU 1996-45977		19951213	
					EP 1995-944089	A3	19951213	
OTHER SOURCE(S):			MADDA	T 100.247E1	WO 1995-US16096	M	19951213	
ornak booker(b).			MANAM	T T70:24/2]	L.			

R12 R15 R14 W R4 R3 R10 N R9

AB Non-steroidal compds. represented by formula [I; R3 = H, C1-4 alkyl or perfluoroalkyl, CH2OH, aryl, heteroaryl, or (un)substituted allyl, arylmethyl, alkynyl, or alkenyl; R4 = H, F, C1, Br, iodo, NO2, CO2H, CO2R2, COR2, cyano, CF3, CH2OH, C1-4 alkyl, perfluoroalkyl, OR2, SR2, SOR2, SO2R2, SO3H, S(NR2R7)R2, S(O)(NR2R7)R2, NR2R7, aryl, heteroaryl, etc.; wherein R2 = H, C1-4 alkyl or perfluoroalkyl, aryl, heteroaryl, or (un)substituted allyl, arylmethyl, alkynyl, or alkenyl; R7 = H, C1-4 alkyl or perfluoroalkyl, aryl, heteroaryl, NH, or OH; R9, R10 = H, C1-6 alkyl or perfluoroalkyl, aryl, heteroaryl,

Ι

RN 199608-88-3 CAPLUS

CN 1H-[1]Benzopyrano[3,4-f]quinoline, 5-(3-bromo-5-methylphenyl)-2,5-dihydro-2,2,4-trimethyl- (9CI) (CA INDEX NAME)

RN 199608-89-4 CAPLUS

CN 1H-[1]Benzopyrano[3,4-f]quinoline, 5-[4-fluoro-3-(trifluoromethyl)phenyl]-2,5-dihydro-2,2,4-trimethyl- (9CI) (CA INDEX NAME)

ANSWER 23 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1996:494197 CAPLUS

DOCUMENT NUMBER:

125:142697

TITLE:

Preparation of quinolines and fused quinolines as

steroid receptor modulators

INVENTOR(S):

Jones, Todd K.; Goldman, Mark E.; Pooley, Charlotte L. F.; Winn, David T.; Edwards, James E.; West, Sarah J.; Tegley, Christopher M.; Zhi, Lin; Hamann, Lawrence G.;

et al.

Ligand Pharmaceuticals Incorporated, USA PATENT ASSIGNEE(S):

SOURCE:

PCT Int. Appl., 403 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

12

	TENT NO	•		KINI		DATE									DATE		
WO	9619458 9619458	3		Α2	-	1996 1996	0627	1	WO :	 1995-	US16	096			19951	213	
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	5693647	7		A		1997				1995-					19950		
US	5696130			A <sub>.</sub>		1997				1995-					19950		
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										.995-6					.99506		
										.995-6					.99506		
										.995-6					99506		
										996-4					99512		
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									JS 1	999-6	52643	1	I		99906		
OTHER SC	OURCE(S)	:		MARP	AT	125:1	.4269	7									

RN 179897-81-5 CAPLUS

CN 1H-[1]Benzopyrano[3,4-f]quinoline, 9-chloro-2,5-dihydro-2,2,4-trimethyl-5-phenyl- (9CI) (CA INDEX NAME)

IT 179898-20-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of quinolines and fused quinolines as steroid receptor modulators)

RN 179898-20-5 CAPLUS

CN 1H-[1]Benzopyrano[3,4-f]quinoline-1-carboxylic acid, 5-(4-chlorophenyl)-2,5-dihydro-2,2,4-trimethyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

10/684,229

(FILE 'HOME' ENTERED AT 15:42:33 ON 27 DEC 2004)

FILE 'REGISTRY' ENTERED AT 15:42:48 ON 27 DEC 2004

STRUCTURE UPLOADED

L2 16 S L1

L3 325 S L1 FULL

FILE 'CAPLUS' ENTERED AT 15:43:59 ON 27 DEC 2004

L4 23 S L3

=> d 11

L1

L1 HAS NO ANSWERS

L1 STR

G1 C,O,S,N

Structure attributes must be viewed using STN Express query preparation.

=>



# PALM INTRANET

Day: Monday Date: 12/27/2004 Time: 16:05:51

## **Inventor Name Search Result**

Your Search was:

Last Name = ZHI First Name = LIN

Application#	Patent#	Status	Date Filed	Title
60552690	Not Issued	020	03/12/2004	ANDROGEN RECEPTOR MODULATOR COMPOUNDS AND METHODS
60548154	Not Issued	020	02/25/2004	GLUCOCORTICOID RECEPTOR MODULATOR COMPOUNDS AND METHODS
60497125	Not Issued	159	08/22/2003	6-CYCLOAMINO-2-QUINOLINONE DERIVATIVES AS ANDROGEN RECEPTOR MODULATOR COMPOUNDS
60447841	Not Issued	160	02/14/2003	USE OF ENDOGENOUS TISSUE SPECIFIC ENZYMES FOR ADMINISTRATION OF PHARMACEUTICALLY ACTIVE COMPOUNDS HAVING TISSUE SPECIFIC PHARMACEUTICAL ACTIVITY
60271189	Not Issued	159	02/23/2001	TRICYCLIC ANDROGEN RECEPTOR MODULATOR COMPOUNDS AND METHODS
60271115	Not Issued	159	02/23/2001	TRICYCLIC QUINOLINONE AND TRICYCLIC QUINOLINE ANDROGEN RECEPTOR MODULATOR COMPOUNDS AND METHODS
60183042	Not Issued	159	05/04/1999	CYCLIC REGIMENS USING QUINAZOLINONE AND BENZOXAZINE DERIVATIVES
10767813	Not Issued	030	01/29/2004	CYCLOCARBAMATE DERIVATIVES AS PROGESTERONE RECEPTOR MODULATORS
10739933	Not Issued	041	12/17/2003	STEROID RECEPTOR MODULATOR COMPOUNDS AND METHODS
10684229	Not Issued	030	10/10/2003	5-CYCLOALKENYL 5H-CHROMENO[3,4-F]QUINOLINE DERIVATIVES AS SELECTIVE PROGESTERONE RECEPTOR MODULATOR COMPOUNDS
10684227	Not Issued	030	10/10/2003	5-(1',1'-CYCLOALKYL/ALKENYL)METHYLIDENE 1,2-DIHYDRO-5H-CHROMENO[3,4-F]QUINOLINES AS SELECTIVE PROGESTERONE RECEPTOR MODULATOR COMPOUNDS

10684212	Not Issued	020	10/10/2003	5-SUBSTITUTED 7,9-DIFLUORO-5H-CHROMENO[3,4-F]QUINOLINE COMPOUNDS AS SELECTIVE PROGESTERONE RECEPTOR MODULATOR COMPOUNDS	Ξ Ι
10456892	Not Issued	030	06/06/2003	INDOLINE DERIVATIVES	Z
10420276	6841568	150	04/22/2003	THIO-OXINDOLE DERIVATIVES	Z
					I
<u>10386799</u>	6713478	150	03/12/2003	CYCLOCARBAMATE DERIVATIVES AS PROGESTERONE RECEPTOR MODULATORS	2 1
10342719	Not Issued	041	01/15/2003	CYANOPYRROLES	Z L
10153393	6544970	150	05/22/2002	CYCLIC REGIMENS UTILIZING INDOLINE DERIVATIVES	Z I
10141792	6759408	150	05/09/2002	COMBINATION REGIMENS USING PROGESTERONE RECEPTOR MODULATORS	Z L
10140034	Not Issued	040	05/06/2002	CYCLOTHIOCARBAMATE DERIVATIVES AS PROGESTERONE RECEPTOR MODULATORS	Z
10131379	6835744	150	04/24/2002	3,3-SUBSTITUTED INDOLINE DERIVATIVES	Z L
<u>10117156</u>	Not Issued	061	04/05/2002	THIO-OXINDOLE DERIVATIVES	Z
10091222	6794373	150	03/01/2002	CONTRACEPTIVE METHODS USING BENZIMIDAZOLONES	Z L
10080926	Not Issued	120	02/22/2002	TRICYCLIC ANDROGEN RECEPTOR MODULATOR COMPOUNDS AND METHODS	Z
10080503	Not Issued	041		TRICYCLIC QUINOLINONE AND TRICYCLIC QUINOLINE ANDROGEN RECEPTOR MODULATOR COMPOUNDS AND METHODS	Z L
10023063	6693103	150	12/17/2001	1,2,3,4-TETRAHYDRO-2-THIOXO-QUINOLINYL AND 1,2,3,4-TETRAHYDRO-2-OXO-QUINOLINYL DERIVATIVES AS PROGESTERONE RECEPTOR MODULATORS	Z L
10022467	6521657	150	10/30/2001	THIO-OXINDOLE DERIVATIVES	Z L
09989710	Not Issued	160		COMPOUNDS HAVING SELECTIVE ACTIVITY FOR RETINOID X RECEPTORS, AND MEANS FOR MODULATION OF PROCESSES MEDIATED BY RETINOID X RECEPTORS	Z L
<u>09977790</u>	6503939	150		COMBINATION REGIMENS USING 3,3-SUBSTITUTED INDOLINE DERIVATIVES	Z L
09948309	65663 <u>58</u>	150	09/06/2001	OVOLOGADDATA	Z L Z
09906875	6441019	150	*******************************	CYCLOCARBAMATE AND CYCLIC AMIDE	Z

				DERIVATIVES	
<u>09649466</u>	6566372	150	08/24/2000	BICYCLIC ANDROGEN AND PROGESTERONE RECEPTOR MODULATOR COMPOUNDS AND	
				METHODS	
09648684	6462038	150	08/25/2000	ANDROGEN RECEPTOR MODULATOR COMPOUNDS AND METHODS	
09552633	6509334	150	04/19/2000	CYCLOCARBAMATE DERIVATIVES AS PROGESTERONE RECEPTOR MODULATORS	
09552632	6391907	150	04/19/2000	INDOLINE DERIVATIVES	
09552631	6329416	150	04/19/2000	COMBINATION REGIMENS USING 3,3-SUBSTITUTED INDOLINE DERIVATIVES	
09552630	6339098	150	04/19/2000	2,1-BENZISOTHIAZOLINE 2,2-DIOXIDES	
09552629	6358948	150	04/19/2000	QUINAZOLINONE AND BENZOXAZINE DERIVATIVES AS PROGESTERONE RECEPTOR MODULATORS	6000 6000 6000 6000 6000 6000 6000 600
09552546	6380235	150	04/19/2000	BENZIMIDAZOLONES AND ANALOGUES	244
09552545	6380178	150	04/19/2000	CYCLIC CONTRACEPTIVE REGIMENS USING CYCLOCARBAMATE AND CYCLIC AMIDE DERIVATIVES	
09552358	6462032	150		CYCLIC REGIMENS UTILIZING INDOLINE DERIVATIVES	
09552357	<u>6498154</u>	150		CYCLIC REGIMENS USING QUINAZOLINONE AND BENZOXAZINE DERIVATIVES	
09552356	6369056	150	04/19/2000	CYCLIC UREA AND CYCLIC AMIDE DERIVATIVES	
09552355	6423699	150		CONTRACEPTIVE METHODS USING BENZIMIDAZOLONES	
09552354	6436929	150	7 ·	CYCLOTHIOCARBAMATE DERIVATIVES AS PROGESTERONE RECEPTOR MODULATORS	
09552353	6358947	150		TETRACYCLIC PROGESTERONE RECEPTOR MODULATOR COMPOUNDS AND METHODS	***************************************
09552352	6417214	150	, , , , , , , , , , , , , , , , , , , ,	3,3-SUBSTITUTED INDOLINE DERIVATIVES	•
) <u>9552350</u>	6444668	150	A contract of the contract of the contract of	COMBINATION REGIMENS USING PROGESTERONE RECEPTOR MODULATORS	
09552038	6319912	150	04/19/2000	CYCLIC REGIMENS USING 2,1-BENZISOTHIAZOLINE 2,2-DIOXIDES	
9552037	6399593	150	04/19/2000	CYCLIC REGIMENS USING CYCLIC UREA AND CYCLIC AMIDE DERIVATIVES	
09552036	<u>6306851</u>	150	04/19/2000	CYCLOCARBAMATE AND CYCLIC AMIDE DERIVATIVES	

09552033 6355648 150		IIO-OXINDOLE DERIVATIVES	Z L							
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Inventor		Search								

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